

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A crop harvesting machine, comprising: with a driven crop supply device operable for feeding harvested crop; that can be operated in such a manner as to feed crop to a driven crop processing device located for receiving crop fed by said crop supply device; an internal combustion engine having an output shaft; a hydrostatic transmission including a variable displacement pump hydraulically coupled to a motor; said motor being coupled for driving said supply device; said pump having an electrically responsive displacement control arrangement and being coupled for being driven by said output shaft; said output shaft being coupled for driving said crop processing device; an electrical control unit for establishing a desired relationship between the speed of said supply device and the speed of said processing device; said displacement control arrangement being coupled to said control unit for receiving a displacement control signal for effecting a change in pump displacement; a speed sensor arrangement located for sensing the speed of at least one of said internal combustion engine output shaft and processing device and being coupled for transmitting an electrical signal representative of the sensed speed to said control unit; said electrical control unit being preprogrammed with a desired speed relationship between the respective speeds of said crop processing device and said supply device; and said with a control unit that is designed, based on the detected being responsive to said electrical signal and to said desired speed relationship for generating a control rotational speed of one of the crop processing device or the supply device, to generate a controller output signal that brings about a change in the detected rotational speed of said supply device such that the difference between the actual rotational speed ratio of the supply device and crop processing device and the desired rotational speed ratio is at least reduced, characterized in that the control can be operated in such a manner as to generate the controller output signal independently of a detection of the rotational speed of the supply device or of the crop processing device.

2. (cancelled)

3. (currently amended) The harvesting machine, as defined by claim 1 2, wherein said preprogrammed speed relationship established in said control unit so can be operated in such a manner as to determine the control controller output signal is accomplished by providing said control unit with one of a table or an algorithm.

4. (cancelled)

5. (currently amended) The harvesting machine, as defined in claim 1 4, and further including a transmission having an input shaft coupled to said motor and an output shaft coupled to said supply device; and said transmission being wherein said characterized in that the drive motor drives the supply device by one of directly, via a fixed or a shiftable gear transmission, or via a planetary transmission comprising an element driven mechanically by said an internal combustion engine.

6. (cancelled)

7. (cancelled)

8. (cancelled)

9. (currently amended) A The harvesting machine, as defined in claim 1, wherein said speed sensor arrangement includes at least two speed sensors respectively located for detecting the rotational speed of the supply device and the crop processing device; said control unit being is connected to said at least two speed sensors designed to detect the rotational speed of the supply device and/or of the crop processing device; and said control unit being operable for detecting and storing the rotational speed ratio of the two sensors in order to be able, if one of the sensors fails, to fall back on the remaining sensor.

10. (currently amended) The harvesting machine, as defined in claim 1, wherein said crop processing device is a chopper drum; said supply device comprises draw-in rollers, ; and said control unit being operable for adjusting whereby control of the rotational speed of the draw-in rollers by said control unit results in the achievement of such a manner that a desired value for the cut length is achieved.